

Appl. No. : 09/912,020
Filed : July 23, 2001

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

Claim 1 (Currently Amended): A method of inhibiting cellular proliferation comprising inhibiting the activity or reducing the amount of a polypeptide comprising the amino acid sequence consisting of SEQ ID NO: 325 or inhibiting the activity or reducing the amount of a nucleic acid encoding said polypeptide, wherein inhibiting the activity or reducing the amount of a polypeptide comprising the amino acid sequence consisting of SEQ ID NO: 325 or inhibiting the activity or reducing the amount of a nucleic acid encoding said polypeptide inhibits cellular proliferation.

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Claim 2 (Original): The method of Claim 1, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Enterococcus faecalis*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Saccharomyces cerevisiae*, *Candida albicans*, *Cryptococcus neoformans*, *Aspergillus fumigatus*, *Klebsiella pneumoniae*, *Salmonella typhi*, *Salmonella paratyphi*, *Salmonella cholerasuis*, *Staphylococcus epidermidis*, *Mycobacterium tuberculosis*, *Mycobacterium leprae*, *Treponema pallidum*, *Bacillus anthracis*, *Yersinia pestis*, *Clostridium botulinum*, *Campylobacter jejuni*, *Chlamydia trachomatis*, *Chlamydia pneumoniae* or any species falling within the genera of any of the above species.

Claim 3 (Original): The method of Claim 1, wherein the cell in which proliferation is inhibited is *Escherichia coli*.

Claim 4 (Currently Amended): A method for inhibiting cellular proliferation comprising introducing contacting a cell with a compound which inhibits the activity or reduces the amount of a polypeptide comprising the amino acid sequence consisting of SEQ ID NO: 325 or which inhibits the activity or reduces the amount of a nucleic acid comprising a nucleotide sequence encoding said polypeptide into a cell, wherein contacting said cell with said compound inhibits cellular proliferation.

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Claim 5 (Original): The method of Claim 4, wherein said compound is an antisense nucleic acid.

Claim 6 (Previously Amended): The method of Claim 5, wherein said compound is an antisense nucleic acid comprising a sequence selected from the group consisting of SEQ ID NOs: 459 and 460, or a proliferation-inhibiting portion thereof.

Claim 7 (Previously Amended): The method of Claim 6, wherein said proliferation inhibiting portion of one of SEQ ID NOs: 459 or 460 is a fragment comprising at least 10, at least 20, at least 25, at least 30, at least 50 or more than 50 consecutive nucleotides of one of SEQ ID NOs: 459 or 460.

Claim 8 (Original): The method of Claim 4, wherein said compound is a triple helix oligonucleotide.

Claim 9 (Original): The method of Claim 4, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Enterococcus faecalis*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Saccharomyces cerevisiae*, *Candida albicans*, *Cryptococcus neoformans*, *Aspergillus fumigatus*, *Klebsiella pneumoniae*, *Salmonella typhi*, *Salmonella paratyphi*, *Salmonella cholerasuis*, *Staphylococcus epidermidis*, *Mycobacterium tuberculosis*, *Mycobacterium leprae*, *Treponema pallidum*, *Bacillus anthracis*, *Yersinia pestis*, *Clostridium botulinum*, *Campylobacter jejuni*, *Chlamydia trachomatis*, *Chlamydia pneumoniae* or any species falling within the genera of any of the above species.

Claim 10 (Original): The method of Claim 4, wherein the cell in which proliferation is inhibited is *Escherichia coli*.

Claim 11 (Currently Amended): A method for inhibiting cellular proliferation comprising introducing contacting a cell with a compound with activity against a gene corresponding to one of SEQ ID NO: 165 or with activity against the product of said gene into a population of cells expressing a gene, wherein contacting said cell with said compound inhibits cellular proliferation.

Claim 12 (Original): The method of Claim 11, wherein said compound is an antisense nucleic acid.

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Claim 13 (Previously Amended): The method of Claim 12, wherein said compound is an antisense oligonucleotide comprising a sequence selected from the group consisting of SEQ ID NOs: 459 and 460, or a proliferation-inhibiting portion thereof.

Claim 14 (Previously Amended): The method of Claim 13, wherein said proliferation inhibiting portion of one of SEQ ID NOs: 459 or 460 is a fragment comprising at least 10, at least 20, at least 25, at least 30, at least 50 or more than 50 consecutive nucleotides of one of SEQ ID NOs: 459 or 460.

Claim 15 (Original): The method of Claim 11, wherein said compound is a triple helix oligonucleotide.

Claim 16 (Original): The method of Claim 11, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Enterococcus faecalis*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Saccharomyces cerevisiae*, *Candida albicans*, *Cryptococcus neoformans*, *Aspergillus fumigatus*, *Klebsiella pneumoniae*, *Salmonella typhi*, *Salmonella paratyphi*, *Salmonella cholerasuis*, *Staphylococcus epidermidis*, *Mycobacterium tuberculosis*, *Mycobacterium leprae*, *Treponema pallidum*, *Bacillus anthracis*, *Yersinia pestis*, *Clostridium botulinum*, *Campylobacter jejuni*, *Chlamydia trachomatis*, *Chlamydia pneumoniae* or any species falling within the genera of any of the above species.

Claim 17 (Original): The method of Claim 11, wherein the cell in which proliferation is inhibited is *Escherichia coli*.

Claim 18 (Previously Added): The method of Claim 1, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Salmonella typhi*, *Salmonella paratyphi*, *Salmonella cholerasuis*, *Klebsiella pneumoniae*, *Yersinia pestis*, and *Campylobacter jejuni* or any species falling within the genera of any of the above species.

Claim 19 (Previously Added): The method of Claim 4, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Salmonella typhi*, *Salmonella paratyphi*,

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Salmonella cholerasuis, Klebsiella pneumoniae, Yersinia pestis, and Campylobacter jejuni or any species falling within the genera of any of the above species.

Claim 20 (Previously Added): The method of Claim 11, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli, Pseudomonas aeruginosa, Enterobacter cloacae, Helicobacter pylori, Neisseria gonorrhoeae, Haemophilus influenzae, Salmonella typhimurium, Salmonella typhi, Salmonella paratyphi, Salmonella cholerasuis, Klebsiella pneumoniae, Yersinia pestis, and Campylobacter jejuni or any species falling within the genera of any of the above species.*
